

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GENERAL POWER OF ATTORNEY  
PCT Rule 90.5

I, JOHAN RICHAUD hereby appoint the following persons as my agents:

James R. Williams                      Reg. No. 43,268  
of Jamison, Seltzer, Harper & Williams  
2625 Wilmington Road  
New Castle, PA 16105  
tel: 724-652-0821  
fax: 724-652-7984  
email: [jrwlaw@adelphia.net](mailto:jrwlaw@adelphia.net)

and

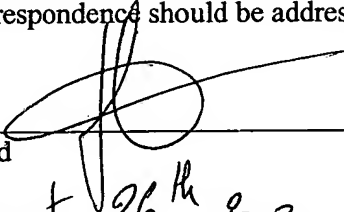
Donald M. Satina                      Reg. No. 31,875  
of Vesuvius USA Corporation  
27 Noblestown Road  
Carnegie, PA 15106  
tel: 412-276-1750 ext. 252  
fax: 412-276-7252  
email: [jim.williams@vesuvius.com](mailto:jim.williams@vesuvius.com)

to represent me with any and all international applications filed by me with the United States Patent and Trademark Office as Receiving Office and to make payments or receive payments on my behalf.

All future correspondence should be addressed to Donald M. Satina.

  
\_\_\_\_\_  
Johan Richaud

Date

  
\_\_\_\_\_  
August 26<sup>th</sup> 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GENERAL POWER OF ATTORNEY  
PCT Rule 90.5

VESUVIUS CRUCIBLE COMPANY, a corporation of the State of Delaware,  
is the owner of worldwide rights for the above-referenced invention by assignment  
from the inventor(s), and hereby appoints the following persons as its agents:

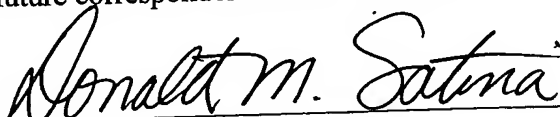
James R. Williams                      Reg. No. 43,268  
of Jamison, Seltzer, Harper & Williams  
2625 Wilmington Road  
New Castle, PA 16105  
tel: 724-652-0821  
fax: 724-652-7984  
email: [jrwlaw@adelphia.net](mailto:jrwlaw@adelphia.net)

and

Donald M. Satina                      Reg. No. 31,875  
of Vesuvius USA Corporation  
27 Noblestown Road  
Carnegie, PA 15106  
tel: 412-276-1750 ext. 252  
fax: 412-276-7252  
email: [jim.williams@vesuvius.com](mailto:jim.williams@vesuvius.com)

to represent it with any and all international applications filed by it with the United  
States Patent and Trademark Office as Receiving Office and to make payments or  
receive payments on my behalf.

All future correspondence should be addressed to Donald M. Satina.

  
Donald M. Satina, Secretary

August 26, 2003  
Date